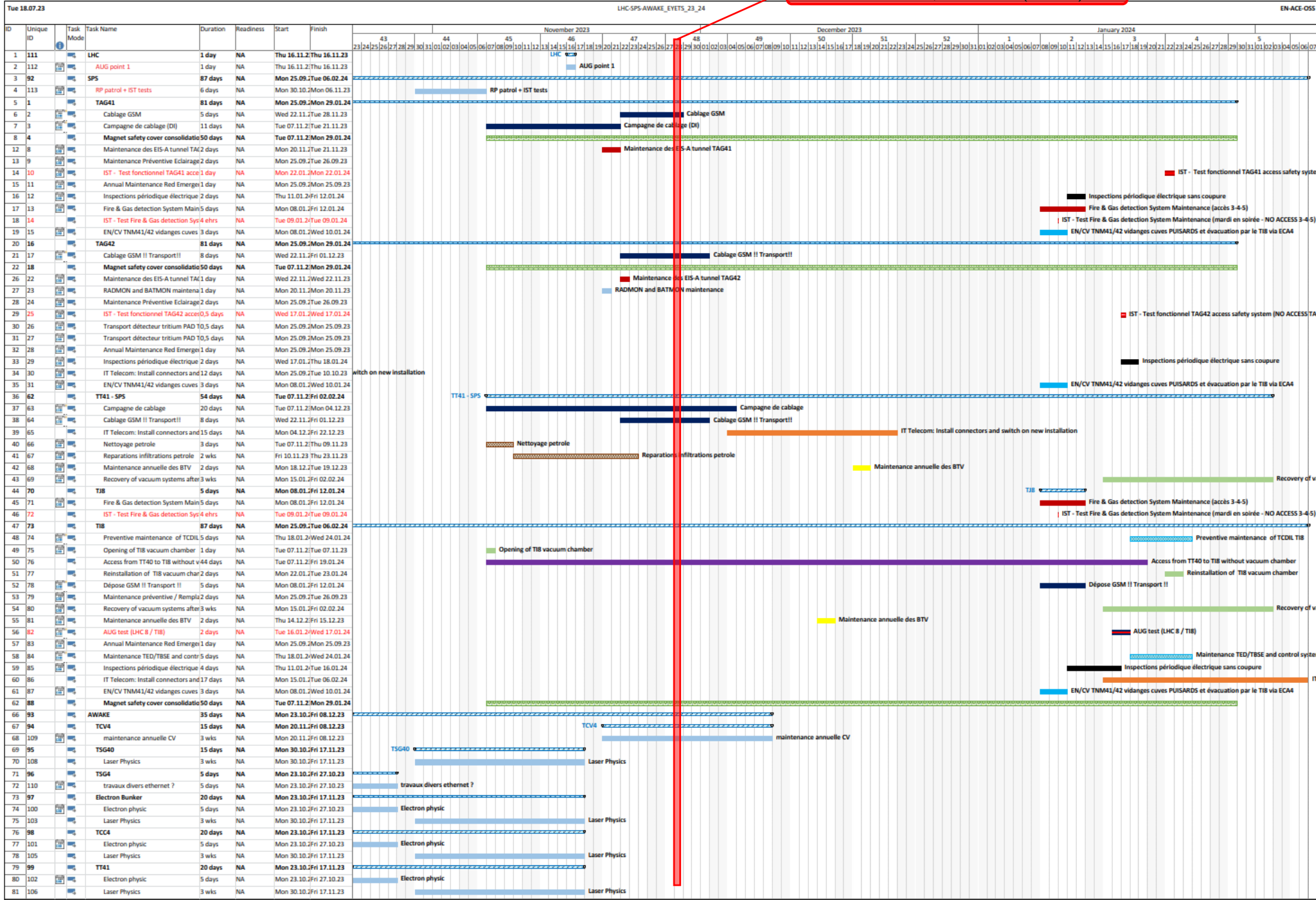




# Interface LHC-SPS-AWAKE

Eloïse Guran

11-09-2023



# Interface schedule

## Main activities:

- **Wk 44:** start EYETS + Awake laser physics
- **Wk 45:** Magnet covers + cabling campaign + Awake laser physics
- **Wk46:** Magnet covers + cabling campaign + Awake laser physics
- **Wk 47:** Magnet covers + cabling campaign + GSM + Awake laser physics
- **Wk 48:** Magnet covers + cabling campaign + GSM (+ Awake laser physics ?)
- **Wk 49:** magnet covers + IT install
- **Wk 50:** magnet covers + IT install
- **Wk 51:** magnet covers + IT install

# Schedule

The gantt view can be find: [EN-ACE Scheduling Tool - Gantt View \(cern.ch\)](https://cern.ch/EN-ACE/SchedulingTool-GanttView)

- Under AWAKE facility
- Name: LHC-SPS-AWAKE\_EYETS\_23\_24

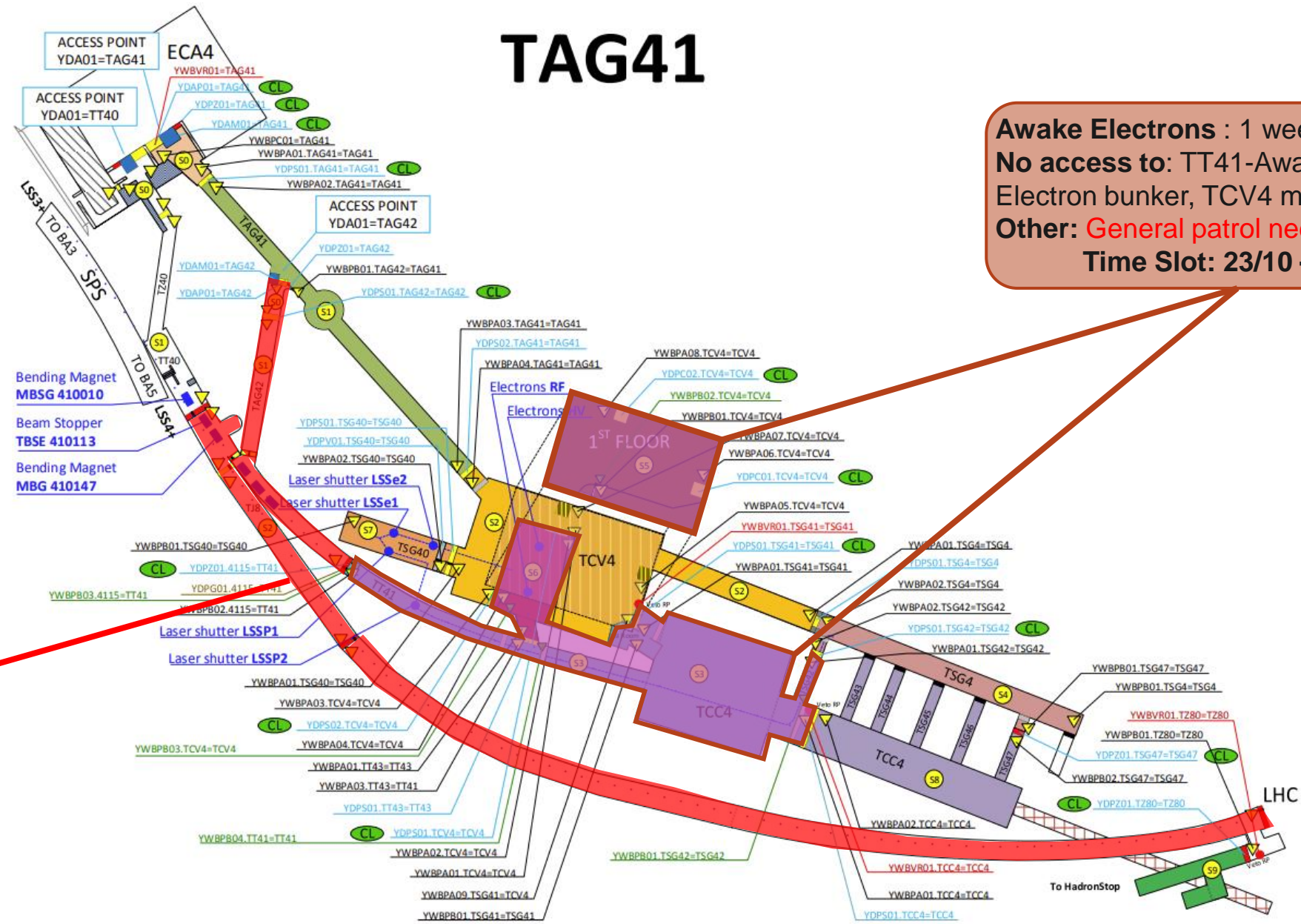
Scale: Month      Facilities: AWAKE      MORE OPTIONS

TODAY Search

Task name	Duration	Start date	Finish date
AWAKE			
AWAKE_YETS_22_23_GENERAL_EDMS28731		11/11/2022	20/10/2023
LHC-SPS-AWAKE_EYETS_23_24		14/08/2020	30/01/2024
LHC	1d	16/11/2023	16/11/2023
SPS	844d	14/08/2020	30/01/2024
AWAKE	35d	23/10/2023	08/12/2023

# Week 43 (23-10-23 to 27-10-23)

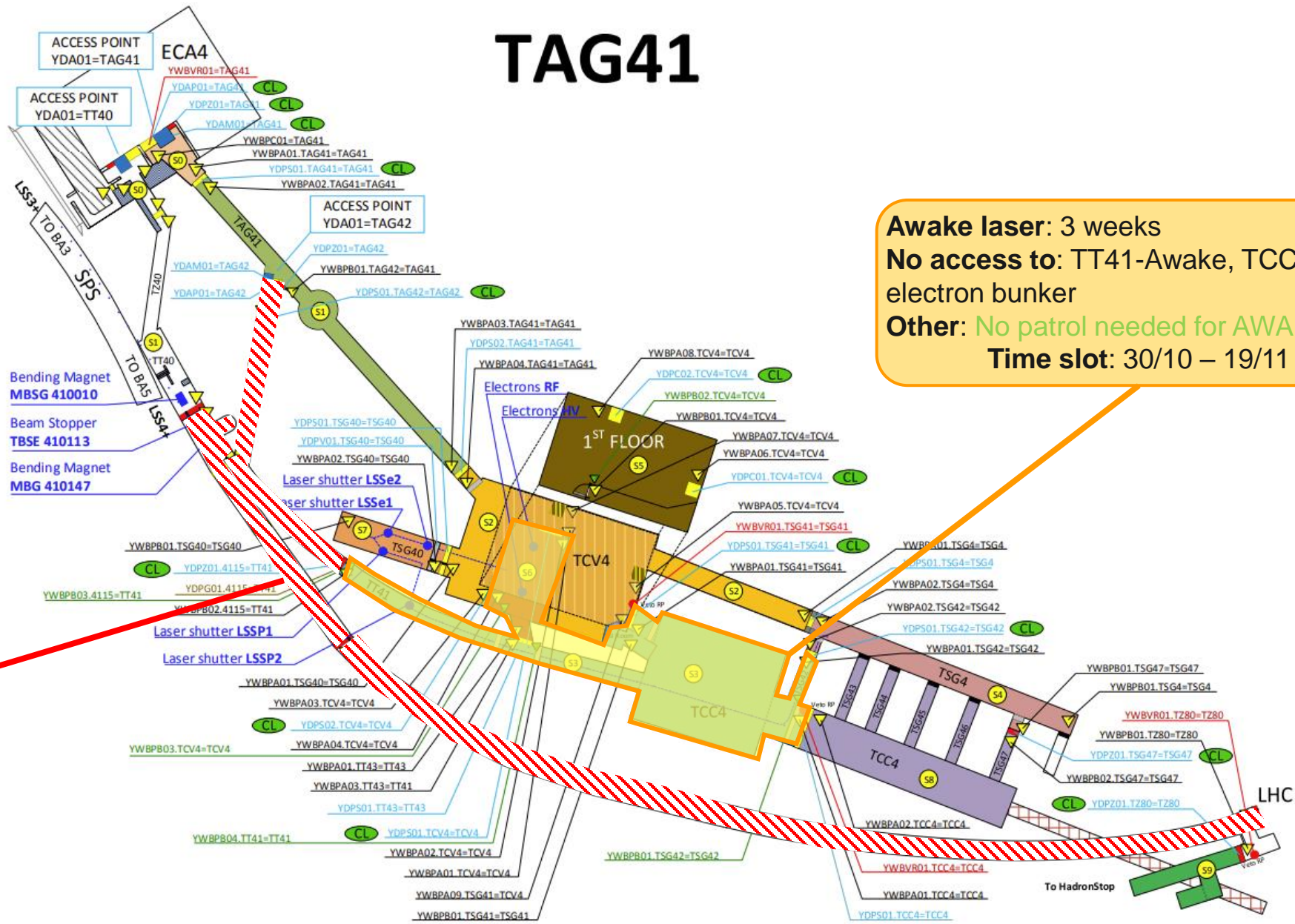
## TAG41



**Awake Electrons : 1 week**  
**No access to: TT41-Awake, TCC4, Electron bunker, TCV4 mezzanine**  
**Other: General patrol needed**  
**Time Slot: 23/10 – 27/10**

**SPS still in RUN → no access**

## TAG41



**Awake laser: 3 weeks**  
**No access to: TT41-Awake, TCC4, electron bunker**  
**Other: No patrol needed for AWAKE**  
**Time slot: 30/10 – 19/11**

**SPS RP Survey + IST tests: 5 days**  
**LHC powering tests phase II: 2 days (02/11 – 03/11)**  
→ **Machine is still patrolled**  
**Time slot: 30/10 – 06/11**

# Week 45 (06-11-23 to 10-11-23)

TI8 chamber open from 07/11 to 22/01

## TAG41

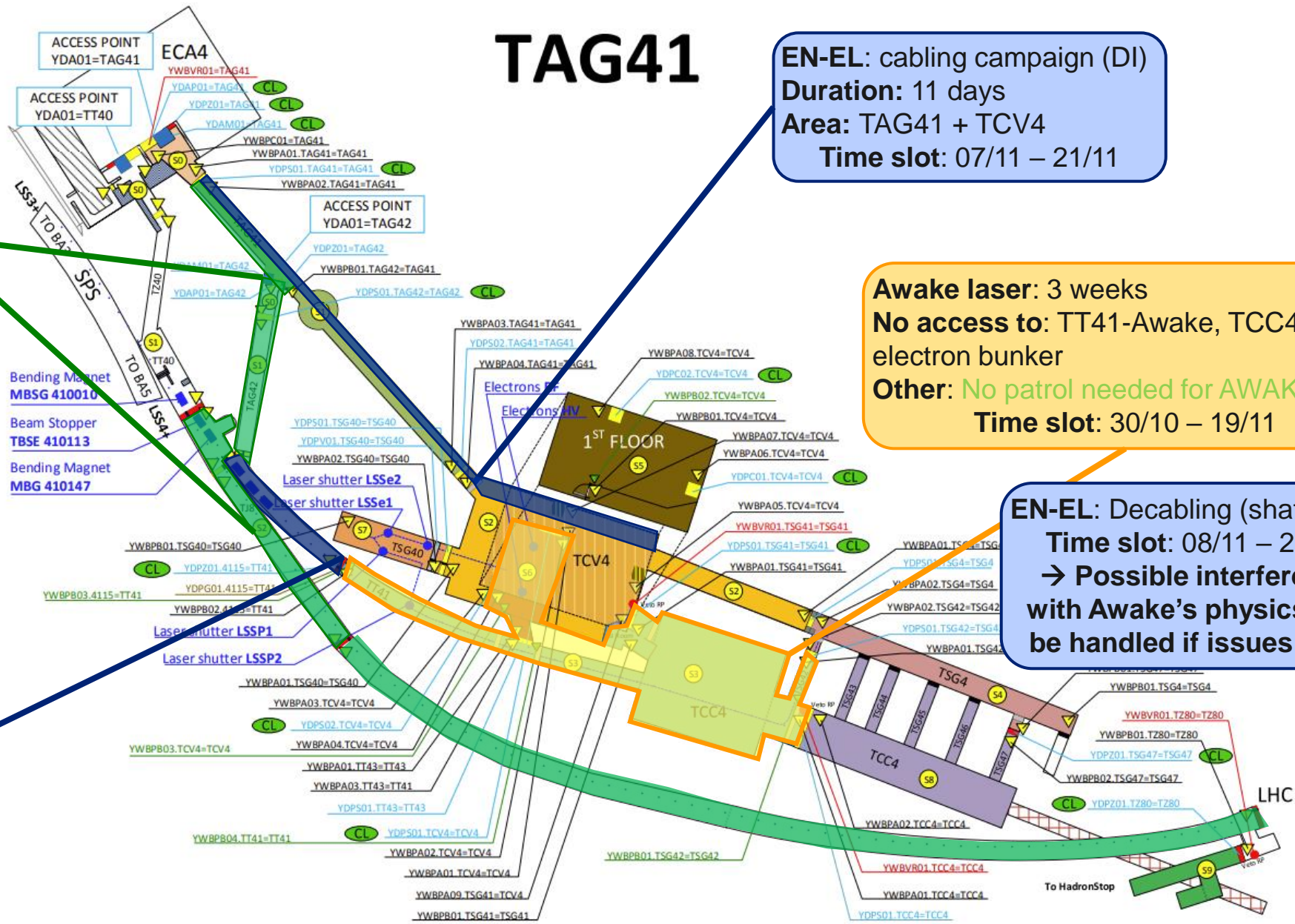
**TE-MSC:** Magnet cover programm  
Duration: 49 days  
Area: TAG41, TAG42, TI8-SPS, TI8-LHC  
Time slot: 06/11 – 26/01

**EN-EL:** cabling campaign (DI)  
Duration: 11 days  
Area: TAG41 + TCV4  
Time slot: 07/11 – 21/11

**Awake laser:** 3 weeks  
No access to: TT41-Awake, TCC4, electron bunker  
Other: No patrol needed for AWAKE  
Time slot: 30/10 – 19/11

**EN-EL:** Decabling (shaft BB4)  
Time slot: 08/11 – 22/12  
→ Possible interference with Awake's physics, will be handled if issues arise

**EN-EL:** cabling campaign  
Duration: 20 days  
Area: TT41-SPS  
Time slot: 07/11 – 04/12



# Week 46 (13-11-23 to 17-11-23)

Tl8 chamber open from 07/11 to 22/01

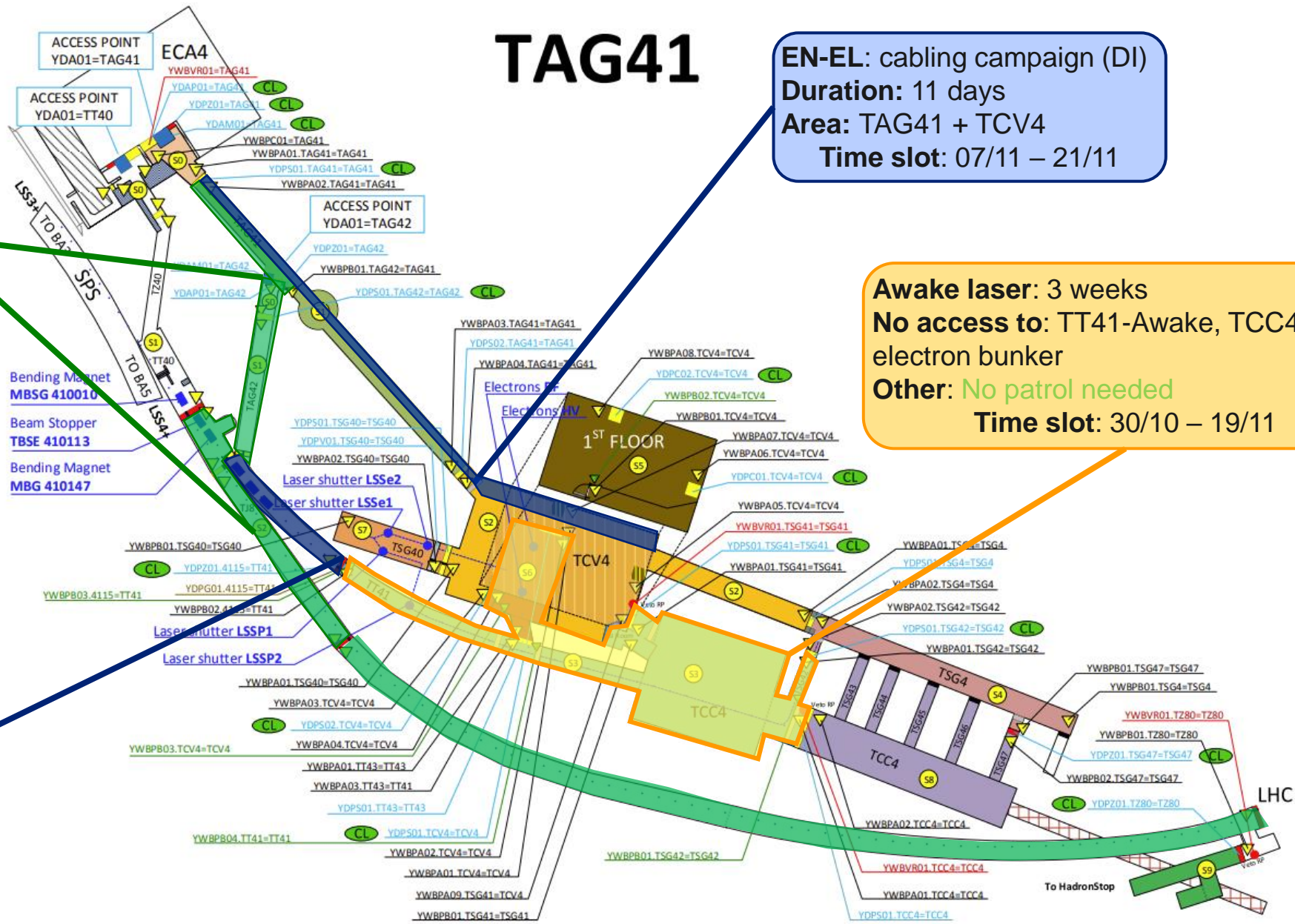
## TAG41

**TE-MSC:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, TI8-SPS, TI8-LHC  
**Time slot:** 06/11 – 26/01

**EN-EL:** cabling campaign (DI)  
**Duration:** 11 days  
**Area:** TAG41 + TCV4  
**Time slot:** 07/11 – 21/11

**Awake laser:** 3 weeks  
**No access to:** TT41-Awake, TCC4, electron bunker  
**Other:** No patrol needed  
**Time slot:** 30/10 – 19/11

**EN-EL:** cabling campaign  
**Duration:** 20 days  
**Area:** TT41-SPS  
**Time slot:** 07/11 – 04/12



# Week 47 (20-11-23 to 24-11-23)

T18 chamber open from 07/11 to 22/01

Awake laser physics possible if needed (but not foreseen)

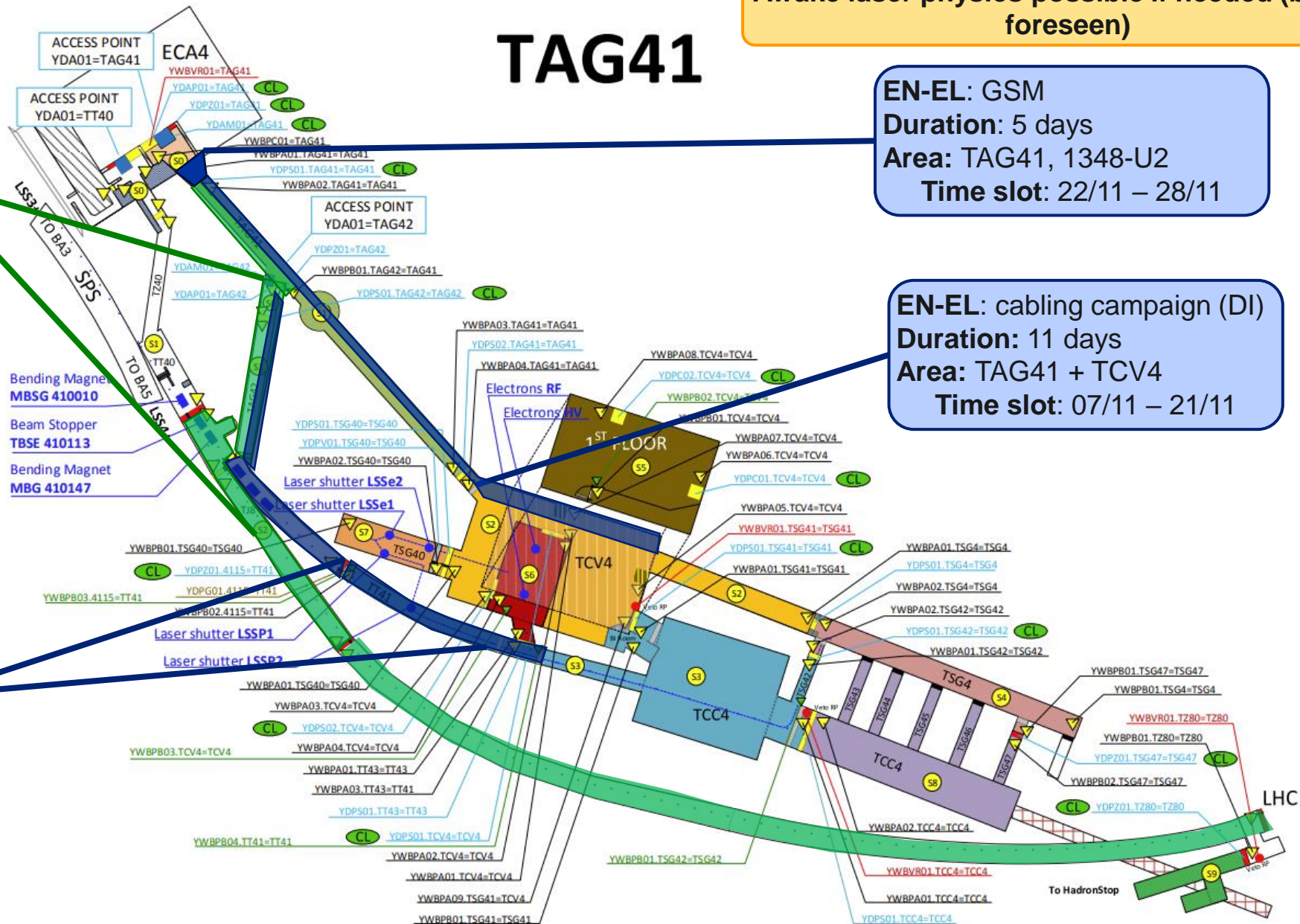
## TAG41

**TE-MS C:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, T18-SPS, T18-LHC  
**Time slot:** 06/11 – 26/01

**EN-EL:** GSM  
**Duration:** 5 days  
**Area:** TAG41, 1348-U2  
**Time slot:** 22/11 – 28/11

**EN-EL:** cabling campaign (DI)  
**Duration:** 11 days  
**Area:** TAG41 + TCV4  
**Time slot:** 07/11 – 21/11

**EN-EL:** cabling campaign  
**Duration:** 20 days  
**Area:** TT41-SPS  
**Time slot:** 07/11 – 04/12  
+  
**EN-EL:** GSM  
**Duration:** 8 days  
**Area:** TT41, TAG42  
**Time slot:** 22/11 – 01/12





# Week 48 (27-11-23 to 01-12-23)

Tl8 chamber open from 07/11 to 22/01

## TAG41

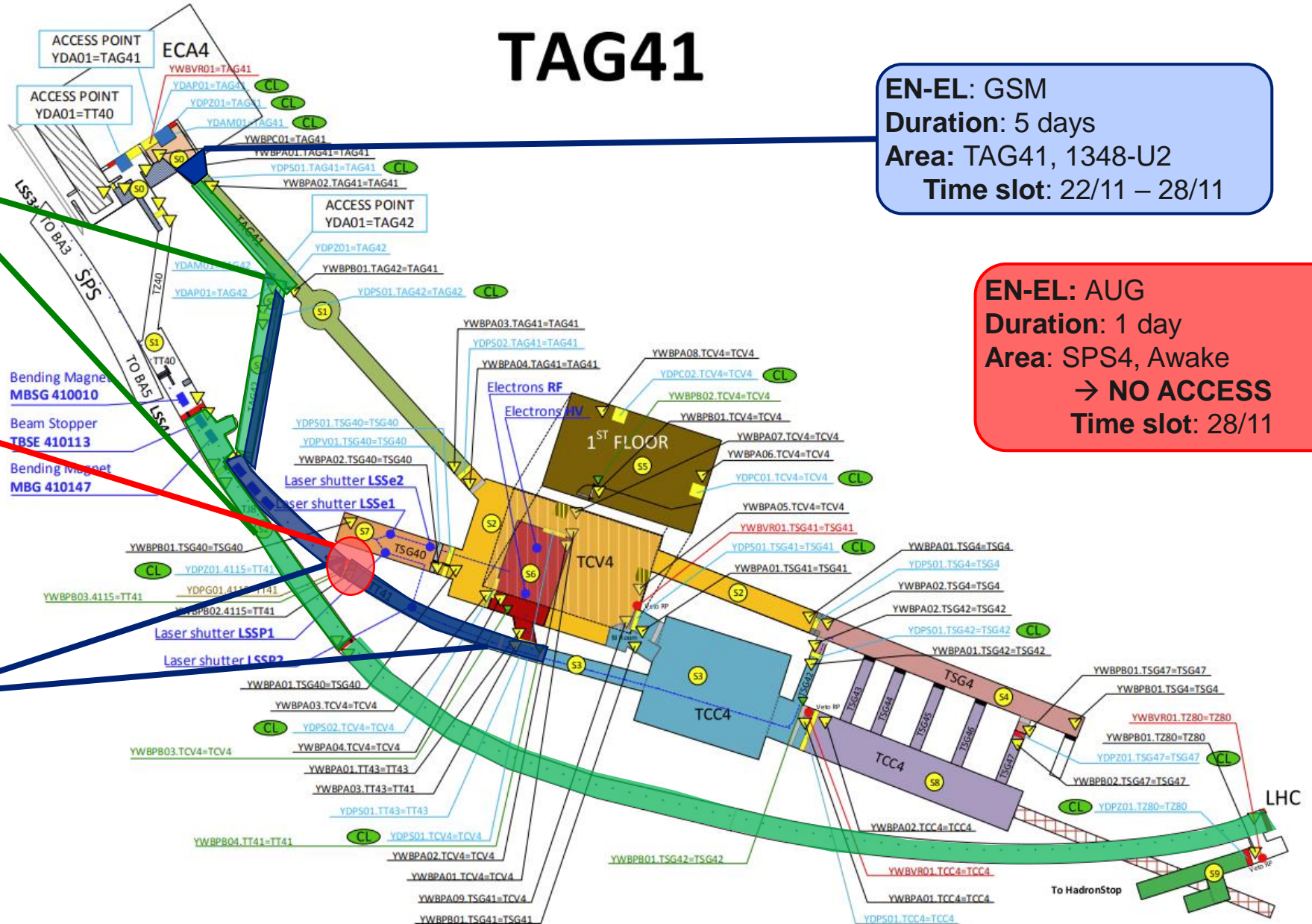
**TE-MSc:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, Tl8-SPS, Tl8-LHC  
**Time slot:** 06/11 – 26/01

**EN-EL: GSM**  
**Duration:** 5 days  
**Area:** TAG41, 1348-U2  
**Time slot:** 22/11 – 28/11

**GSM in TT41 → end of zone door to break**  
**~end wk48**

**EN-EL: AUG**  
**Duration:** 1 day  
**Area:** SPS4, Awake  
**→ NO ACCESS**  
**Time slot:** 28/11

**EN-EL: cabling campaign**  
**Duration:** 20 days  
**Area:** TT41-SPS  
**Time slot:** 07/11 – 04/12  
 +  
**EN-EL: GSM**  
**Duration:** 8 days  
**Area:** TT41  
**Time slot:** 22/11 – 01/12



# Week 49 (04-12-23 to 08-12-23)

TI8 chamber open from 07/11 to 22/01

## TAG41

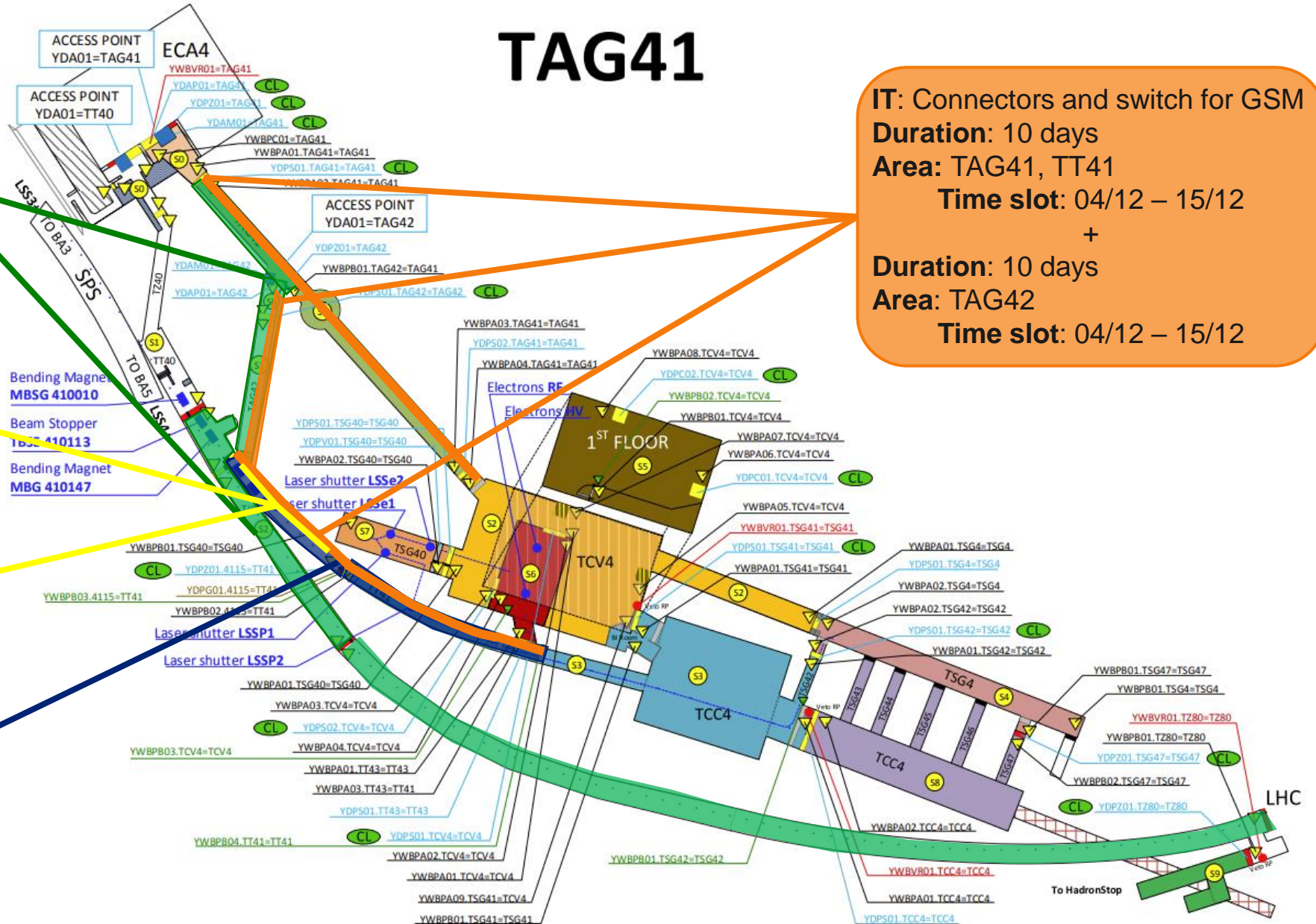
**TE-MS C:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, TI8-SPS, TI8-LHC  
**Time slot:** 06/11 – 26/01

**SCE:** Petrol cleaning  
**Duration:** 3 days  
**Area:** TT41  
**Time slot:** 04/12 – 06/12

**SCE:** Petrol infiltration repair  
**Duration:** 2 weeks  
**Area:** TT41  
**Time slot:** 07/12 – 20/12

**EN-EL:** cabling campaign  
**Duration:** 20 days  
**Area:** TT41-SPS  
**Time slot:** 07/11 – 04/12

**IT:** Connectors and switch for GSM  
**Duration:** 10 days  
**Area:** TAG41, TT41  
**Time slot:** 04/12 – 15/12  
+  
**Duration:** 10 days  
**Area:** TAG42  
**Time slot:** 04/12 – 15/12



# Week 50 (11-12-23 to 15-12-23)

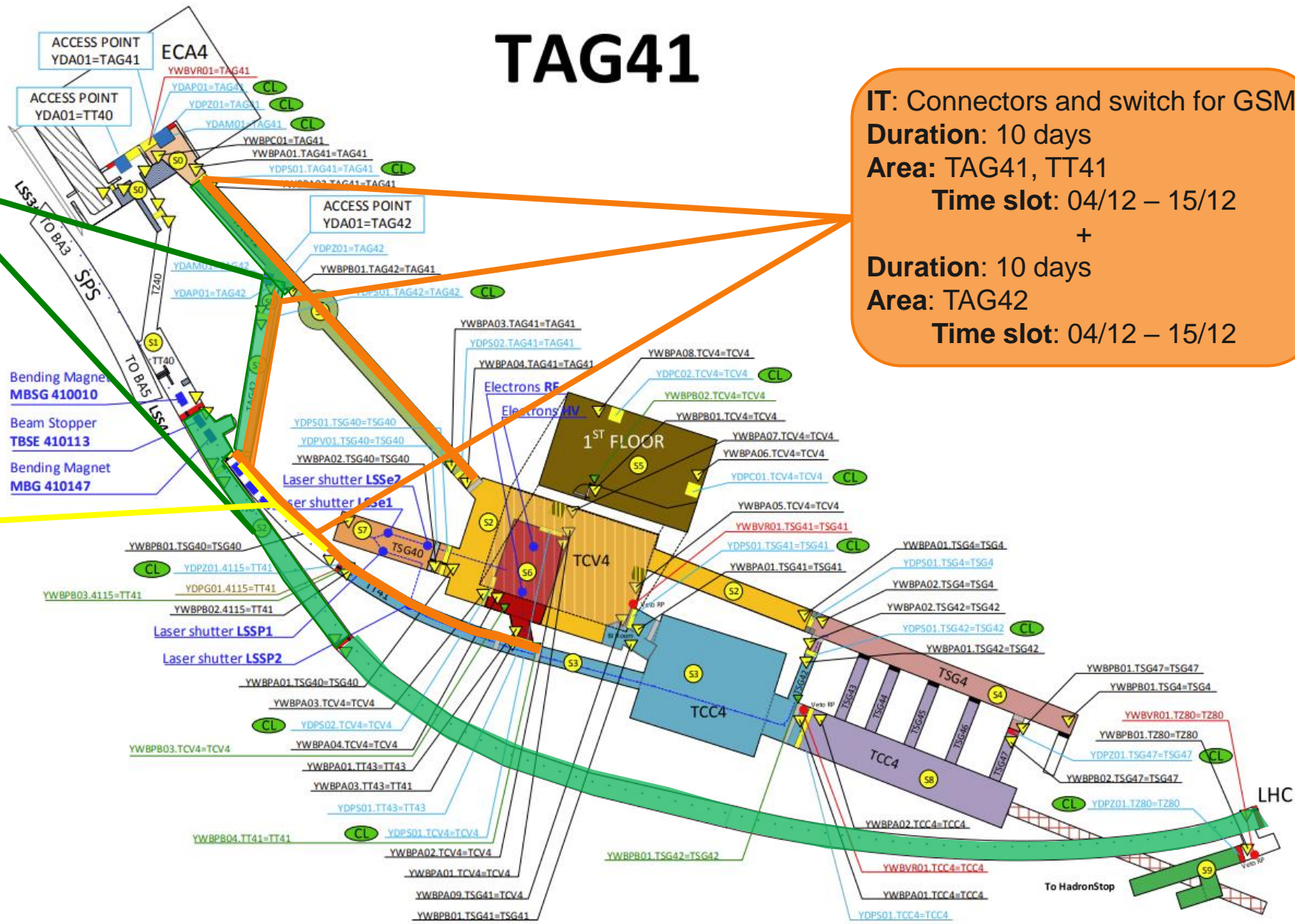
Tl8 chamber open from 07/11 to 22/01

## TAG41

**TE-MSC:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, TI8-SPS, TI8-LHC  
**Time slot:** 06/11 – 26/01

**IT:** Connectors and switch for GSM  
**Duration:** 10 days  
**Area:** TAG41, TT41  
**Time slot:** 04/12 – 15/12  
+  
**Duration:** 10 days  
**Area:** TAG42  
**Time slot:** 04/12 – 15/12

**SCE:** Petrol infiltration repair  
**Duration:** 2 weeks  
**Area:** TT41  
**Time slot:** 07/12 – 20/12



# Week 51 (18-12-23 to 22-12-23)

TI8 chamber open from 07/11 to 22/01

## TAG41

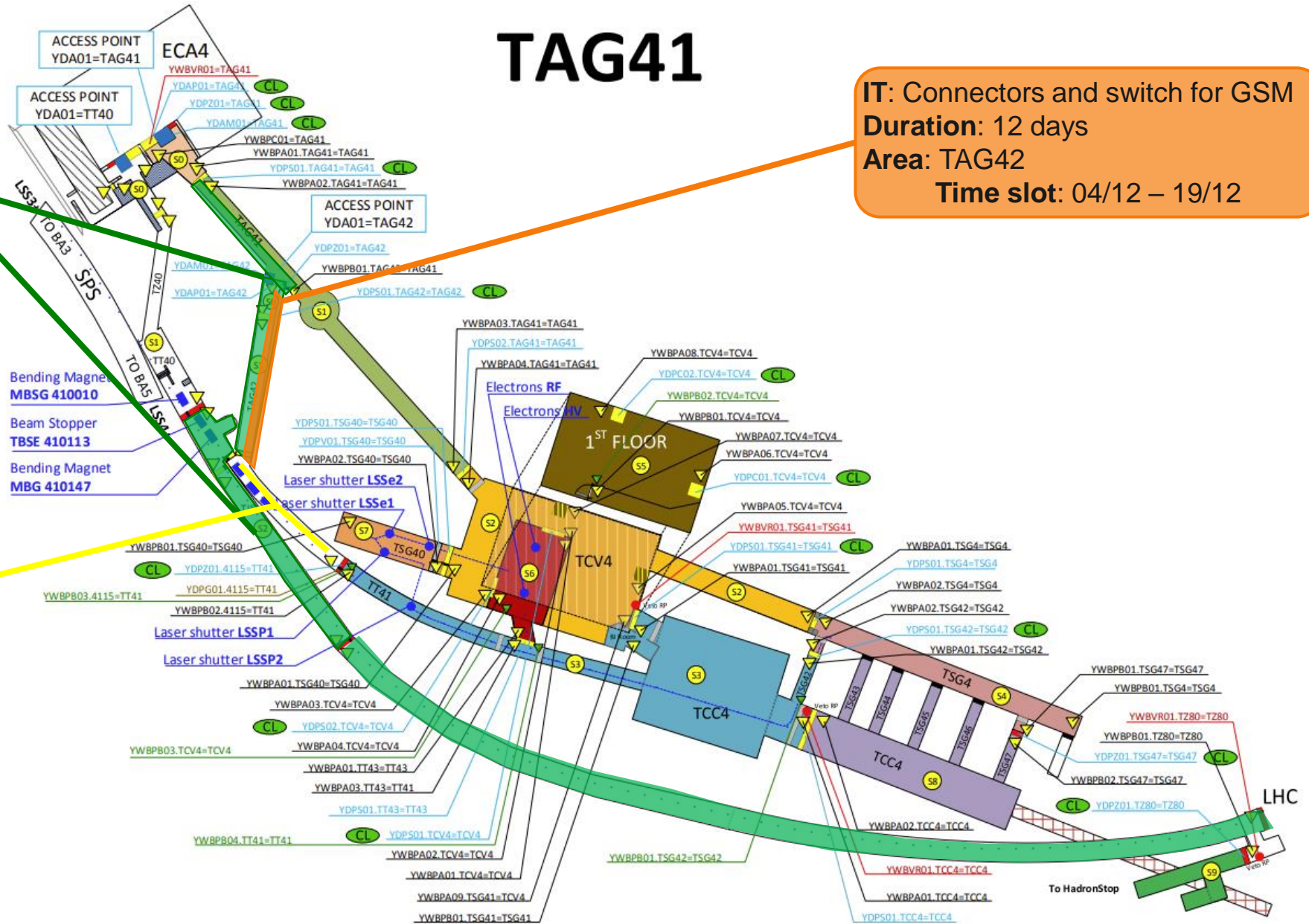
**TE-MS:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, TI8-SPS, TI8-LHC  
**Time slot:** 06/11 – 26/01

**EN-AA:** Red emergency phones maintenance  
**Duration:** 1 day  
**Area:** TAG42, TI8-SPS  
**Time slot:** 21/12

**SCE:** Petrol infiltration repair  
**Duration:** 2 weeks  
**Area:** TT41  
**Time slot:** 07/12 – 20/12

**SY-BI:** BTV maintenance  
**Duration:** 3 days  
**Area:** TT41-SPS, TI8-SPS  
**Time slot:** 20/12 – 22/12S

**IT:** Connectors and switch for GSM  
**Duration:** 12 days  
**Area:** TAG42  
**Time slot:** 04/12 – 19/12



# Week 02 (08-01-24 to 12-01-24)

T18 chamber open from 07/11 to 22/01

Recovery of vacuum system

## TAG41

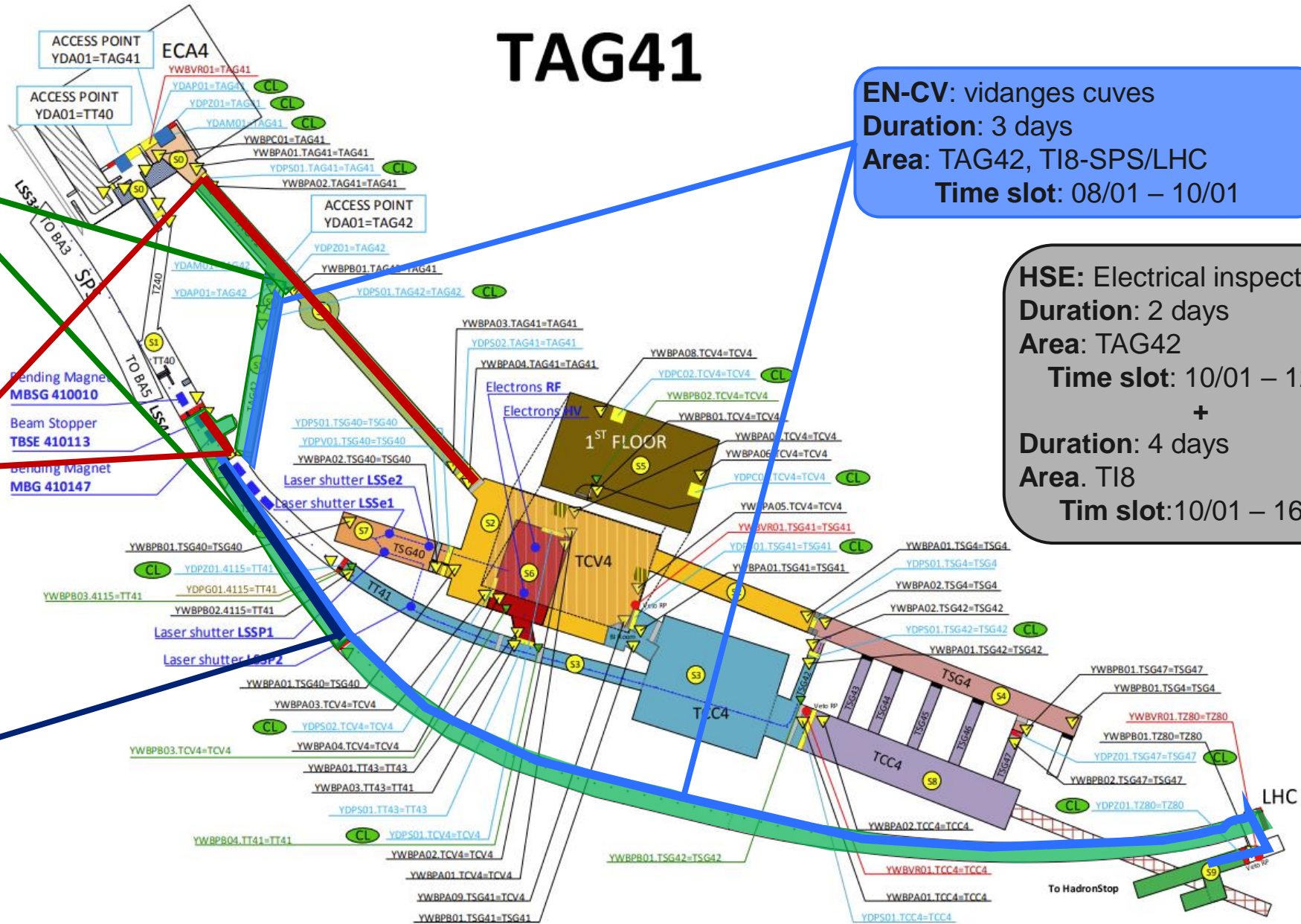
**TE-MS:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, T18-SPS, T18-LHC  
**Time slot:** 06/11 – 26/01

**EN-AA:** Fire and gas systems maintenance  
**Duration:** 5 days  
**Area:** TAG41, TJ8  
**Time slot:** 08/01 – 12/01

**EN-EL:** GSM removal  
**Duration:** 5 days  
**Area:** T18-SPS  
**Time slot:** 08/01 – 12/01

**EN-CV:** vidanges cuves  
**Duration:** 3 days  
**Area:** TAG42, T18-SPS/LHC  
**Time slot:** 08/01 – 10/01

**HSE:** Electrical inspections  
**Duration:** 2 days  
**Area:** TAG42  
**Time slot:** 10/01 – 12/01  
+  
**Duration:** 4 days  
**Area:** T18  
**Time slot:** 10/01 – 16/01



# Week 03 (15-01-24 to 19-01-24)

**TI8 chamber open from 07/11 to 22/01**

**Recovery of vacuum system**

## TAG41

**TE-MSC: Magnet cover programm**  
**Duration: 49 days**  
**Area: TAG41, TAG42, TI8-SPS, TI8-LHC**  
**Time slot: 06/11 – 26/01**

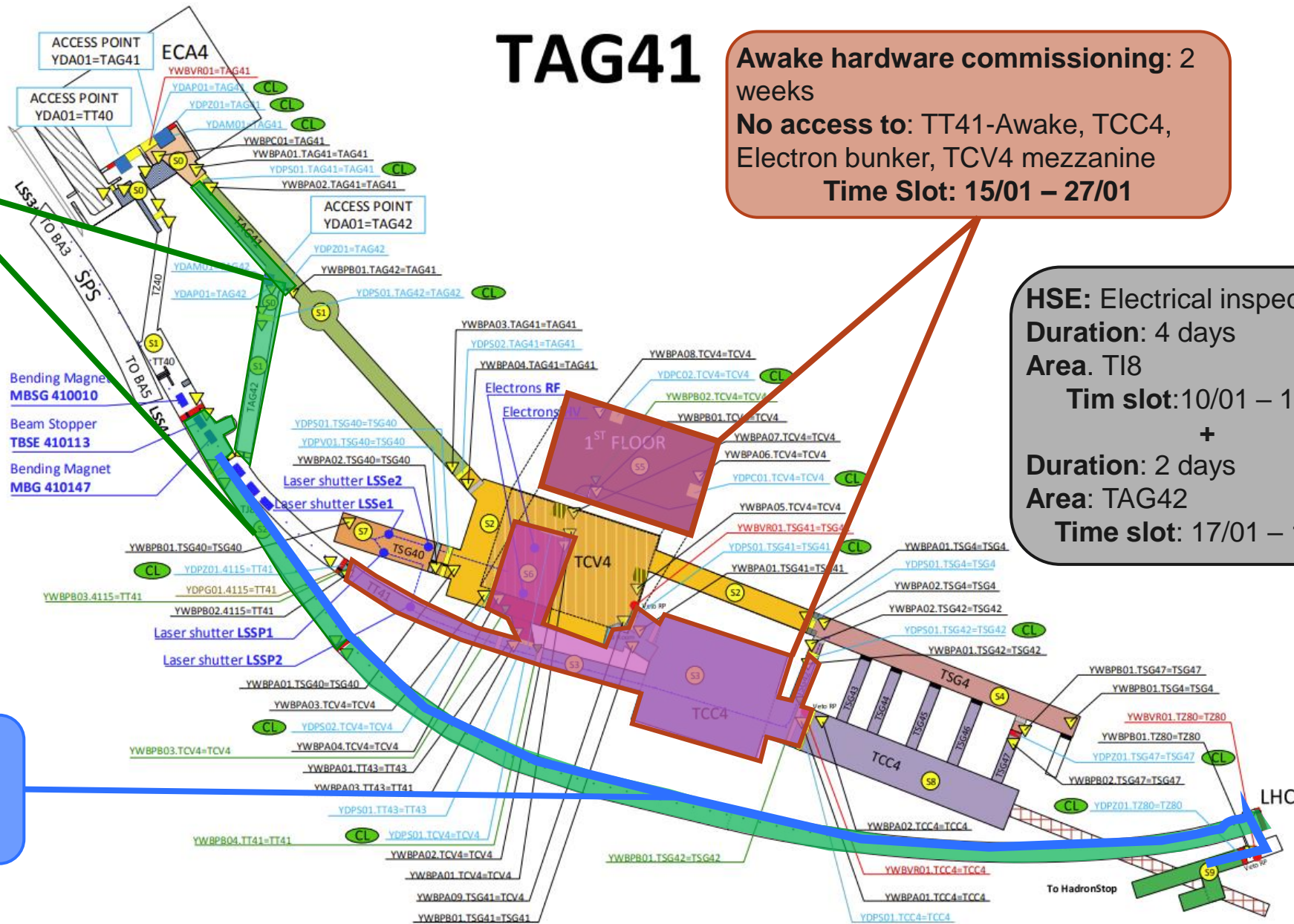
**AUG TI8-LHC**  
**Time slot: 16/01 – 17/01**

**EN-AA: IST Access**  
**Duration: 1 day**  
**Area: TAG42**  
**→ NO ACCESS**  
**Time slot: 17/01**

**Maintenance TED/TBSE**  
**Duration: 5 days**  
**Area: TI8-SPS**  
**Time slot: 18/01 – 24/01**

**Awake hardware commissioning: 2 weeks**  
**No access to: TT41-Awake, TCC4, Electron bunker, TCV4 mezzanine**  
**Time Slot: 15/01 – 27/01**

**HSE: Electrical inspections**  
**Duration: 4 days**  
**Area: TI8**  
**Time slot: 10/01 – 16/01**  
**+**  
**Duration: 2 days**  
**Area: TAG42**  
**Time slot: 17/01 – 18/01**



# Week 04 (22-01-24 to 27-01-24)

Recovery of vacuum system

Reinstallation of T18 vacuum chamber  
On 22/01

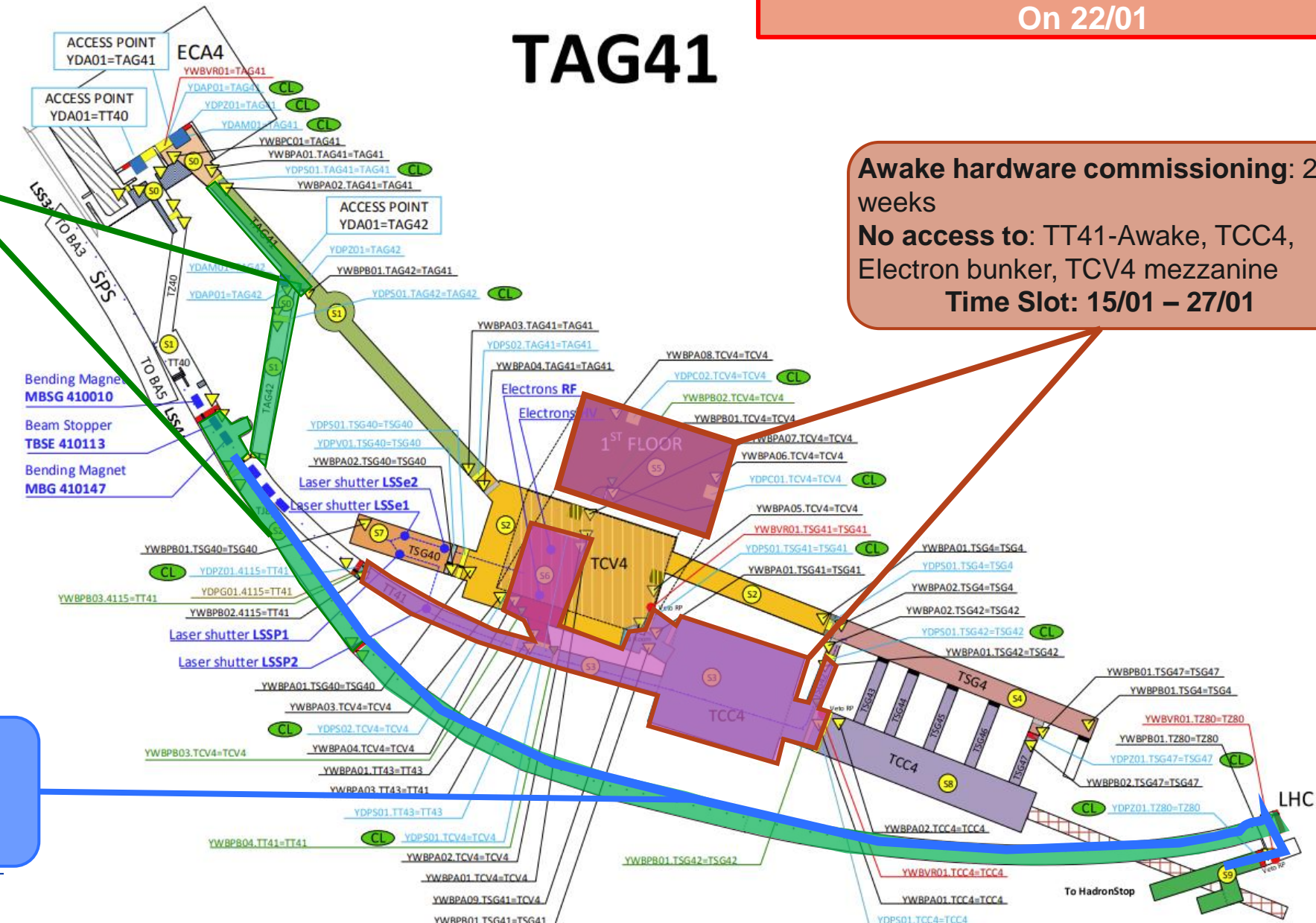
## TAG41

**TE-MS C:** Magnet cover programm  
**Duration:** 49 days  
**Area:** TAG41, TAG42, T18-SPS, T18-LHC  
**Time slot:** 06/11 – 26/01

**EN-AA:** IST Access  
**Duration:** 1 day  
**Area:** TAG41  
**→ NO ACCESS**  
**Time slot:** 22/01

**:** Maintenance TED/TBSE  
**Duration:** 5 days  
**Area:** T18-SPS  
**Time slot:** 18/01 – 24/01

**Awake hardware commissioning:** 2 weeks  
**No access to:** TT41-Awake, TCC4, Electron bunker, TCV4 mezzanine  
**Time Slot:** 15/01 – 27/01

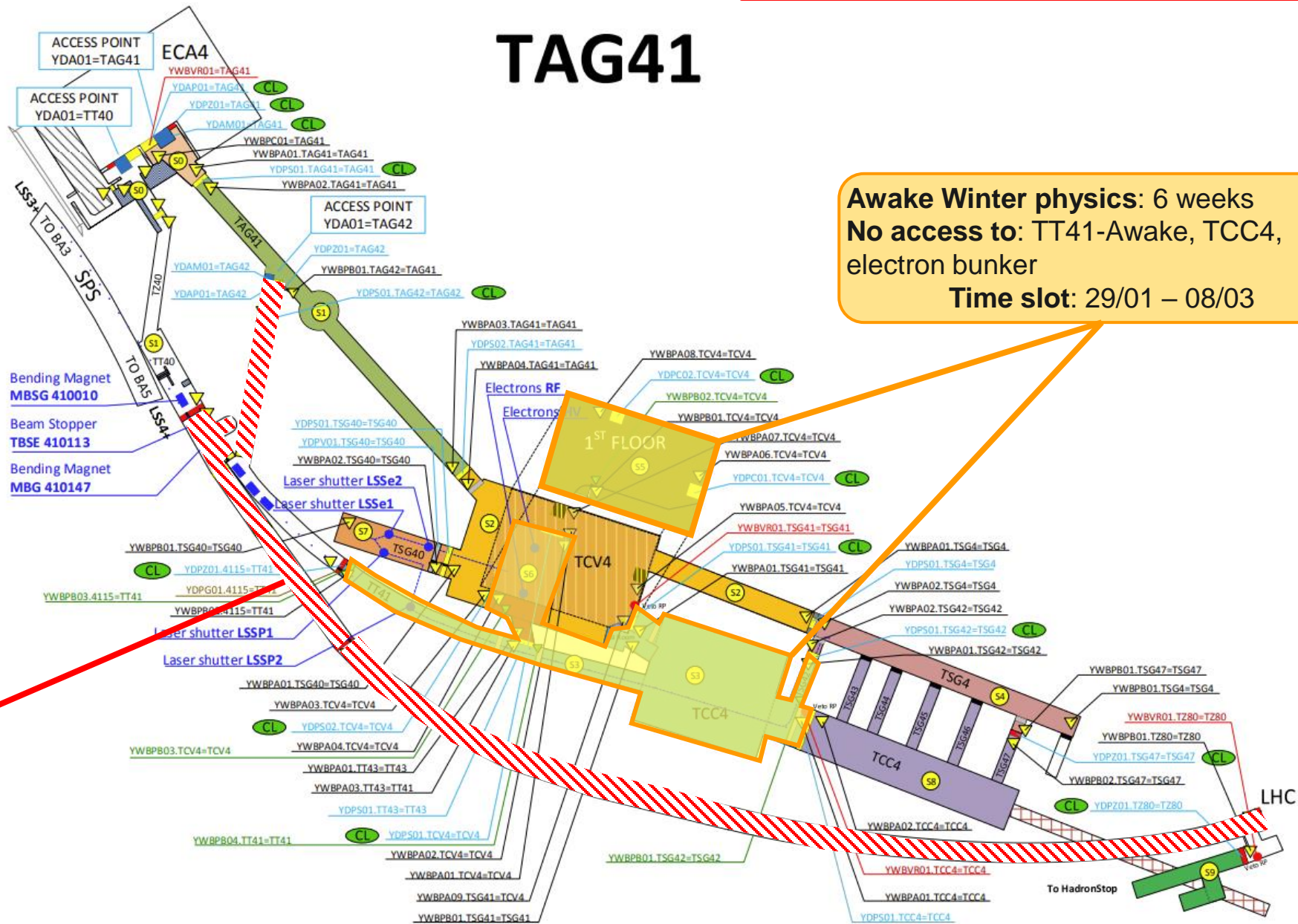


# Week 05 (29-01-24 to 02-02-24)

Recovery of vacuum system

Machine patrolled from 31/01

## TAG41



**Awake Winter physics: 6 weeks**  
**No access to: TT41-Awake, TCC4, electron bunker**  
**Time slot: 29/01 – 08/03**

**SPS IST tests: 6 days**  
**Access: reserved to specialist**  
→ Machine is patrolled again  
**Time slot: 02/02 – 09/02**

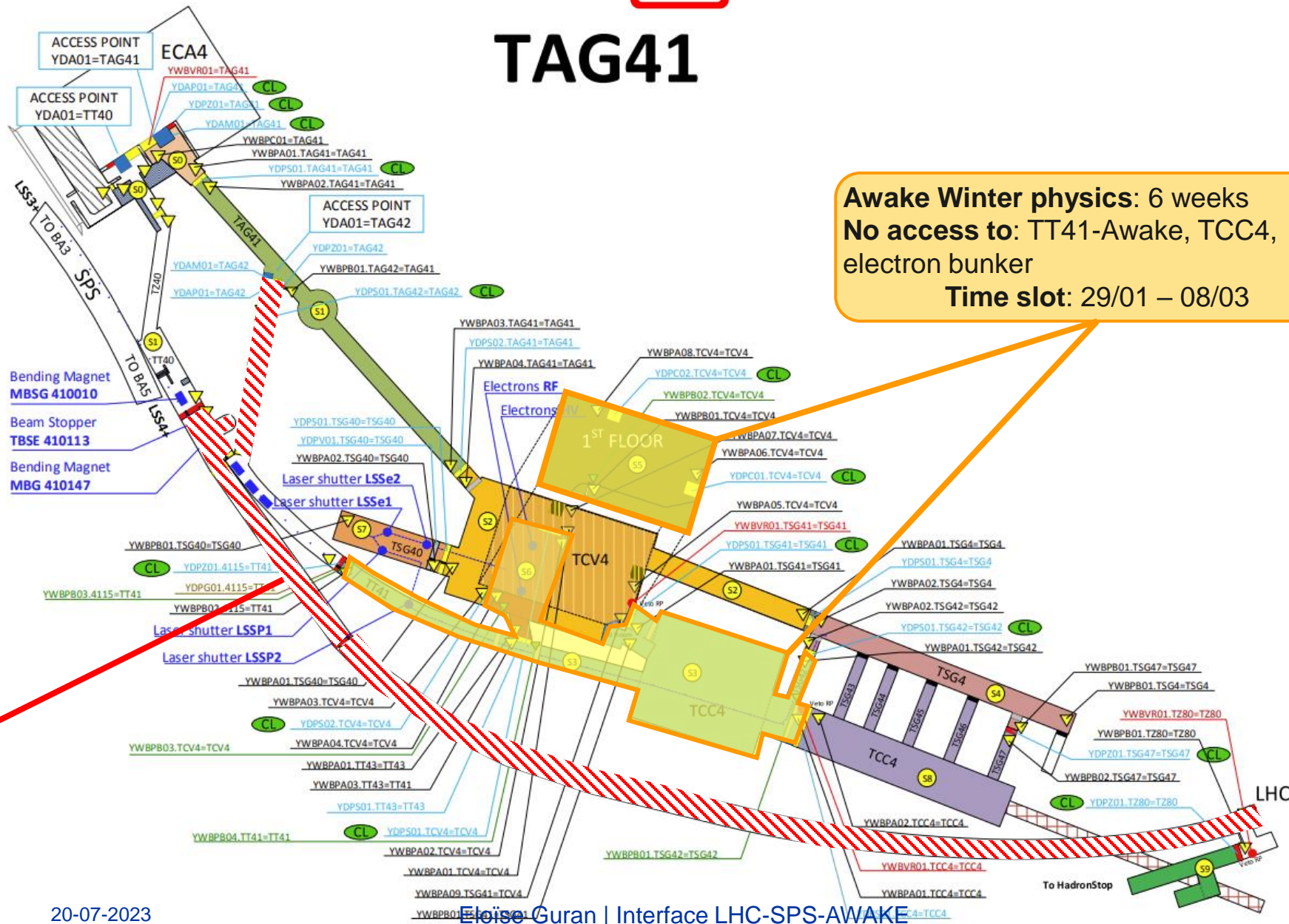


# Week 06 (05-02-24 to 09-02-24)



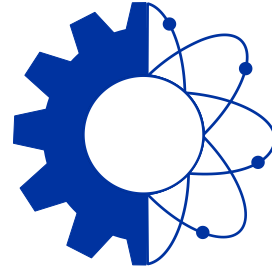
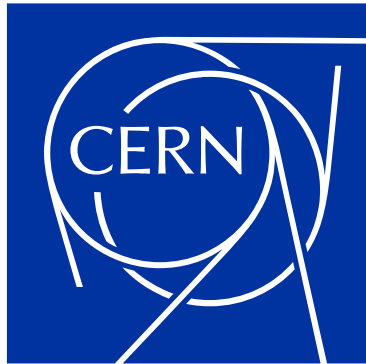
No BB4 elevator from 05/02

## TAG41



**Awake Winter physics: 6 weeks**  
**No access to: TT41-Awake, TCC4, electron bunker**  
**Time slot: 29/01 – 08/03**

**SPS IST tests: 5 days**  
**Access: reserved to specialist**  
→ Machine is patrolled again  
→ Restricted access mode  
**Time slot: 29/01 – 09/02**



**ENGINEERING  
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